

## Recombinant Human TXNRD1, GST-tagged

**Cat. No.** TXNRD1-3506H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TXNRD1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                        |
| <b>Species</b>          | Human                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                            |
| <b>ProteinLength</b>    | C-term-300aa                                                                                                                                                      |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                         |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol. |

### GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                       |
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| <b>Gene Name</b>       | TXNRD1 thioredoxin reductase 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b> | TXNRD1                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | TXNRD1; thioredoxin reductase 1; thioredoxin reductase 1, cytoplasmic; GRIM 12; Trxr1; TXNR; oxidoreductase; thioredoxin reductase TR1; thioredoxin reductase GRIM-12; KM-102-derived reductase-like factor; gene associated with retinoic and IFN-induced mortality 12 protein; gene associated with retinoic and interferon-induced |

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|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | mortality 12 protein; TR; TR1; TRXR1; GRIM-12; MGC9145;                                                                                                                                                                                                         |
| <b>Gene ID</b>             | 7296                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001093771                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_001087240                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 601112                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | Q16881                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 12q23-q24.1                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Oxid |
| <b>Function</b>            | NADP binding; electron carrier activity; flavin adenine dinucleotide binding; oxidoreductase activity; protein disulfide oxidoreductase activity; thioredoxin-disulfide reductase activity;                                                                     |